

Amendments to the Claims

The following Listing of Claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for use in a digital ink-jet printer, the method comprising:

(ii) ~~continuously~~ applying a radiation-curable ink to successive locations on a substrate along a first print line in a first direction extending across the substrate and applying the radiation-curable ink to successive locations on the substrate along a second print line in a second direction opposite the first direction;

(iii) ~~concurrently with the continuous application of the radiation-curable ink along the first and second print lines, continuously applying from a single radiation source first curing radiation of a predetermined first intensity to the applied ink on the successive locations on the substrate along said the first and second print lines, with a certain time delay, constant for all the locations on the substrate, between the applications of ink and the first curing radiation, wherein the applying of the first curing radiation along the first print line comprises directing the first curing radiation from the single radiation source toward the second direction, and the applying of the first curing radiation along the second print line comprises directing the first curing radiation from the single radiation source toward the first direction;~~

(iv) applying second curing radiation of a predetermined second intensity to the locations on the substrate a certain time period, constant for all the locations on the substrate, after the application of the first curing radiation to said locations.

2. (withdrawn) The method of Claim 1, wherein the second curing radiation is applied to the successive locations on the substrate along a print line to which the ink and the first curing radiation have previously been applied, during the application of ink and application of the first curing radiation to successive locations along a preceding print line on the substrate.

3. (withdrawn) The method of Claim 2, wherein the second curing radiation is simultaneously applied to at least two print lines, to which the ink and the first curing radiation have previously been applied.

4. (Previously Presented) The method of claim 1, wherein said predetermined first intensity is about 15% or less than that of said second intensity.

5. (Canceled)

6. (Currently Amended) The method of ~~Claim 5~~claim 1, wherein ~~said application~~the applying of the first curing radiation further comprises ~~selectively~~ directing the curing radiation, ~~generated by a curing source,~~ to the successive locations on the first and second print lines ~~on the substrate in the first or second opposite direction.~~

7. (Currently Amended) The method of claim 1, wherein the first and second curing radiation is concurrently directed to ~~spaces~~spaced-apart locations on the substrate both spaced from a location to which the ink is applied, by splitting the curing radiation, ~~generated by a~~ from the single radiation source, into first and second radiation portions in a predetermined power ratio.

8. (Previously Presented) The method according to claim 1, wherein the first and second curing radiation are of different wavelengths.

9. (Previously Presented) The method according to claim 7, wherein said splitting is wavelength-selective.

10. (Currently Amended) A method for use in a digital ink-jet printer, the method comprising:
continuously applying a radiation-curable ink to successive locations on a substrate along a print line extending across the substrate;
concurrently with the continuous application of the radiation-curable ink along the along print line, continuously applying first curing radiation of a predetermined first intensity

to the applied ink on the successive locations on the substrate along said print line, with a certain time delay, constant for all the locations on the substrate, between the applications of ink and the first curing radiation;

applying second curing radiation of a predetermined second intensity to the locations on the substrate a certain time period, constant for all the locations on the substrate, after the application of the first curing radiation to said locations;

wherein

said radiation curable ink is applied to successive locations along the first and second successive print lines on the substrate in first and second opposite directions, respectively;

said application of the first curing radiation comprises selectively directing the curing radiation, generated by a curing source, to the successive locations on the print line on the substrate in the first or second opposite direction, and

~~The method according to claim 6, wherein~~ said directing of the first curing radiation comprises selectively directing the first curing radiation coming from the radiation source to either one of first and second mirrors accommodated in a spaced-apart relationship along an axis of the print line at opposite sides of the print head assembly, each of the first and second mirrors being oriented to reflect radiation impinging thereon towards the location on the print line.

11. (Original) The method according to Claim 10, wherein said selectively directing comprises directing the first curing radiation coming from the radiation source to a mirror rotatable between first and second orientations of its reflective surface to face the first and second mirrors, respectively.

12. (Currently Amended) A method for use in a digital ink-jet printer, the method comprising:

continuously applying a radiation-curable ink to successive locations on a substrate along a print line extending across the substrate;

concurrently with the continuous application of the radiation-curable ink along the along print line, continuously applying first curing radiation of a predetermined first intensity to the applied ink on the successive locations on the substrate along said print line, with a certain time delay, constant for all the locations on the substrate, between the applications of ink and the first curing radiation;

applying second curing radiation of a predetermined second intensity to the locations on the substrate a certain time period, constant for all the locations on the substrate, after the application of the first curing radiation to said locations;

wherein the first and second curing radiation is concurrently directed to spaced-apart locations on the substrate both spaced from a location to which the ink is applied, by splitting the curing radiation, generated by a single radiation source, into first and second radiation portions in a predetermined power ratio; and

~~The method according to claim 7, further~~ comprising selectively directing curing radiation coming from the radiation source towards either one of first and second radiation splitting elements, each splitting the radiation impinging thereon into first and second radiation portions presenting said first and second curing radiation, the first split radiation portion propagating towards a first print line, and the second split radiation portion being reflected to propagate towards a second print line spaced-apart from the first print line along an axis perpendicular to the print line.

13. (Currently Amended) The method according to claim 7, comprising splitting curing radiation coming from the radiation source into first and second radiation portions presenting said first and second curing radiation, and directing the first and second split radiation portions via a rotatable mirror~~mirror's assembly~~ towards first and second spaced-apart print lines on the substrate, the rotation of said rotatable mirror providing for directing the respective one of the split radiation portions of successive locations along the first and second print lines in either one of the ~~opposite~~first and second directions.

Claims 14-31 (Canceled).